

ENGINEERING CHANGE NOTICE **DART AEROSPACE LTD**

MPP

Date:	15.11.05	Job No.:	ENG6105NOV	ADR Yes/No:	Y	ADR Date:	15.11.05	ECN #:	15- 643
Product No.:	D119-675	Created By:	AP	Approved By:	<i>[Signature]</i>				
Product Name:	HELI-ACCESS-STEPS	Checked By:	<i>[Signature]</i>						

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	N	MP	
Production Manager / Coord.	Y	MP / MF	<i>15.11.09</i>
Purchasing Manager / Purchasing Coord.	N	LL / CL	
Production Engineering Coord.	Y	DD / JLM	<i>15.11.10</i>
Production Engineering Coord.	N	DL	
Customer Order Processing	N	SL / BG	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS / ED	<i>15.11.10</i>
QC Coordinator	Y	PD	<i>15.11.10</i>
Customer Support	Y	SW / LM	<i>15.11.09</i>
Customer Technical Support	Y	MB / HS	<i>15.11.09</i>
Marketing	Y	SL / WR	<i>15.11.09</i>
Sales Support Manager	Y	CP	<i>15.11.09</i>

Reason for Change:
COMPATIBILITY ISSUE BETWEEN STEPS AND D119-796-XXX CROSSTUBES.

Documents Affected:
ICA-D119-675 REV 3
IIN-D119-675 REV C
MDL-D119-675 REV J

IF APPLICABLE: NCR: _____ PAR: _____ CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE ☒ PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	Y	AP	MDL-D119-675 REV. J	<i>A.P. 15.11.09</i>
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	Y	MB	SEE DESCRIPTION	<i>15.11.09</i>
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		<i>15.11.05</i>
12	Update Product Specification Files (Bluefiles)	Y	KJ		<i>15.11.05</i>
13	Update Approved/Preliminary Dwg PDF Files	N			
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	Y	KJ	SEE DESCRIPTION	<i>15.11.05</i>
17	Update / Verify Airworthiness Release Certificate Database	Y	KJ	<i>#52</i>	<i>15.11.05</i>
18	Create / Update Change Record Form / Item Card Database	Y	KJ		<i>15.11.05</i>
19	Create / Update Packaging Process Plan (PPP)	Y	KJ		<i>15.11.10</i>
20	Red Decals required on Packaging Process Plan (PPP)?	Y	KJ		<i>15.11.10</i>
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		<i>15.11.05</i>
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	N			
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:
UPDATE COMPATIBILITY NOTE IN BLUE FILES TO REMOVE COMPATIBILITY ISSUE WITH 675 STEPS.
D119-675-015, D119-675-111/-112 AT CHANGE 001 → *No Stock.*

D119-675-015 KIT REQUIRED TO USE D119-675-011/-012 ON DART D119-796 CROSSTUBES.
D119-675-111/-112 COMPATIBLE WITH D119-796-XXX CROSSTUBES ONLY.

B140 840 MLC

JAN 20 2016

ECN Verified & Complete: *[Signature]* Date: **NOV 17 2015**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause <div style="display: flex;"> <div style="width: 50%;"> Environment <input type="checkbox"/> Design <input type="checkbox"/> Doc/Data <input type="checkbox"/> Equip/Tooling <input type="checkbox"/> Handling/Pre <input type="checkbox"/> Material <input type="checkbox"/> Internal Transport <input type="checkbox"/> Tribal Knowledge <input type="checkbox"/> LOA <input type="checkbox"/> Substation <input type="checkbox"/> Past Expiry Date <input type="checkbox"/> Misidentified <input type="checkbox"/> </div> <div style="width: 50%;"> No Re-verification <input type="checkbox"/> Operator <input type="checkbox"/> Offset/Setup <input type="checkbox"/> Supplier <input type="checkbox"/> Training <input type="checkbox"/> Use for Testing <input type="checkbox"/> Poor Information <input type="checkbox"/> Rushing <input type="checkbox"/> Product Improvement <input type="checkbox"/> Process Improvement <input type="checkbox"/> Manufacturing Process <input type="checkbox"/> Past Due <input type="checkbox"/> </div> </div>		FAULT CATEGORY <div style="display: flex;"> <div style="width: 33%;"> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Wave/Twist in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> </div> <div style="width: 33%;"> Temperature/Cure <input type="checkbox"/> Set-up <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Drill Holes <input type="checkbox"/> </div> <div style="width: 33%;"> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set <input type="checkbox"/> Misabeled <input type="checkbox"/> Fit/Function <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> </div> <div style="width: 33%;"> Positioned Wrong <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Misread <input type="checkbox"/> Turning Sequence <input type="checkbox"/> </div> </div>							
		OTHER : <input type="checkbox"/>							